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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/847,172

DATE: 12/17/2001
 TIME: 10:04:39

Input Set : A:\ES.txt
 Output Set: N:\CRF3\12172001\I847172.raw

ENTERED

3 <110> APPLICANT: OREGON HEALTH AND SCIENCES UNIVERSITY
 4 BURROWS, GREGORY G.
 5 VANDENBARK, ARTHUR A.
 7 <120> TITLE OF INVENTION: RECOMBINANT MHC MOLECULES USEFUL FOR MANIPULATION OF
 ANTIGEN-SPECIFIC T-
 8 CELLS
 10 <130> FILE REFERENCE: 899-58137
 12 <140> CURRENT APPLICATION NUMBER: US 09/847,172
 13 <141> CURRENT FILING DATE: 2001-05-01
 15 <150> PRIOR APPLICATION NUMBER: US 60/200,942
 16 <151> PRIOR FILING DATE: 2000-05-01
 18 <150> PRIOR APPLICATION NUMBER: US 09/153,586
 19 <151> PRIOR FILING DATE: 1998-09-15
 21 <150> PRIOR APPLICATION NUMBER: US 60/064,555
 22 <151> PRIOR FILING DATE: 1997-10-10
 24 <150> PRIOR APPLICATION NUMBER: US 60/064,552
 25 <151> PRIOR FILING DATE: 1997-09-16
 27 <160> NUMBER OF SEQ ID NOS: 44
 29 <170> SOFTWARE: PatentIn version 3.1
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 566
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Rattus sp.
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 37 <221> NAME/KEY: CDS
 38 <222> LOCATION: (3)..(560)
 39 <223> OTHER INFORMATION:
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 44 Met Gly Arg Asp Ser Pro Arg Asp Phe Val Tyr Gln Phe Lys Gly
 45 1 5 10 15
 47 ctg tgc tac tac acc aac ggg acg cag cgc ata cgg gat gtg atc aga 95
 48 Leu Cys Tyr Tyr Thr Asn Gly Thr Gln Arg Ile Arg Asp Val Ile Arg
 49 20 25 30
 51 tac atc tac aac cag gag gag tac ctg cgc tac gac agc gac gtg ggc 143
 52 Tyr Ile Tyr Asn Gln Glu Glu Tyr Leu Arg Tyr Asp Ser Asp Val Gly
 53 35 40 45
 55 gag tac cgc gcg ctg acc gag ctg ggg cgg ccc tca gcc gag tac ttt 191
 56 Glu Tyr Arg Ala Leu Thr Glu Leu Gly Arg Pro Ser Ala Glu Tyr Phe
 57 50 55 60
 59 aac aag cag tac ctg gag cag acg cgg gcc gag ctg gac acg gtc tgc 239
 60 Asn Lys Gln Tyr Leu Glu Gln Thr Arg Ala Glu Leu Asp Thr Val Cys
 61 65 70 75
 63 aga cac aac tac gag ggg tcg gag gtc cgc acc tcc ctg cgg cgg ctt 287
 64 Arg His Asn Tyr Glu Gly Ser Glu Val Arg Thr Ser Leu Arg Arg Leu
 65 80 85 90 95
 67 gga ggt caa gac gac att gag gcc gac cac gta gcc gcc tat ggt ata 335
 68 Gly Gly Gln Asp Asp Ile Glu Ala Asp His Val Ala Ala Tyr Gly Ile

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69          100          105          110
71 aat atg tat cag tat tat gaa tcc aga ggc cag ttc aca cat gaa ttt      383
72 Asn Met Tyr Gln Tyr Tyr Glu Ser Arg Gly Gln Phe Thr His Glu Phe
73          115          120          125
75 gat ggt gac gag gaa ttc tat gtg gac ttg gat aag aag gag acc atc      431
76 Asp Gly Asp Glu Glu Phe Tyr Val Asp Leu Asp Lys Lys Glu Thr Ile
77          130          135          140
79 tgg agg atc ccc gag ttt gga cag ctg aca agc ttt gac ccc caa ggt      479
80 Trp Arg Ile Pro Glu Phe Gly Gln Leu Thr Ser Phe Asp Pro Gln Gly
81          145          150          155
83 gga ctt caa aat ata gct ata ata aaa cac aat ttg gaa atc ttg atg      527
84 Gly Leu Gln Asn Ile Ala Ile Ile Lys His Asn Leu Glu Ile Leu Met
85 160          165          170          175
87 aag agg tca aat tca acc caa gct gtc aac taa ctcgag      566
88 Lys Arg Ser Asn Ser Thr Gln Ala Val Asn
89          180          185
92 <210> SEQ ID NO: 2
93 <211> LENGTH: 185
94 <212> TYPE: PRT
95 <213> ORGANISM: Rattus sp.
97 <400> SEQUENCE: 2
99 Met Gly Arg Asp Ser Pro Arg Asp Phe Val Tyr Gln Phe Lys Gly Leu
100 1          5          10          15
103 Cys Tyr Tyr Thr Asn Gly Thr Gln Arg Ile Arg Asp Val Ile Arg Tyr
104          20          25          30
107 Ile Tyr Asn Gln Glu Glu Tyr Leu Arg Tyr Asp Ser Asp Val Gly Glu
108          35          40          45
111 Tyr Arg Ala Leu Thr Glu Leu Gly Arg Pro Ser Ala Glu Tyr Phe Asn
112          50          55          60
115 Lys Gln Tyr Leu Glu Gln Thr Arg Ala Glu Leu Asp Thr Val Cys Arg
116 65          70          75          80
119 His Asn Tyr Glu Gly Ser Glu Val Arg Thr Ser Leu Arg Arg Leu Gly
120          85          90          95
123 Gly Gln Asp Asp Ile Glu Ala Asp His Val Ala Ala Tyr Gly Ile Asn
124          100          105          110
127 Met Tyr Gln Tyr Tyr Glu Ser Arg Gly Gln Phe Thr His Glu Phe Asp
128          115          120          125
131 Gly Asp Glu Glu Phe Tyr Val Asp Leu Asp Lys Lys Glu Thr Ile Trp
132          130          135          140
135 Arg Ile Pro Glu Phe Gly Gln Leu Thr Ser Phe Asp Pro Gln Gly Gly
136 145          150          155          160
139 Leu Gln Asn Ile Ala Ile Ile Lys His Asn Leu Glu Ile Leu Met Lys
140          165          170          175
143 Arg Ser Asn Ser Thr Gln Ala Val Asn
144          180          185
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 113
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence

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152 <220> FEATURE:
153 <223> OTHER INFORMATION: Antigen/linker insert
155 <220> FEATURE:
156 <221> NAME/KEY: CDS
157 <222> LOCATION: (3)..(113)
158 <223> OTHER INFORMATION:
161 <400> SEQUENCE: 3
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163   Met Gly Arg Asp Ser Pro Gln Lys Ser Gln Arg Thr Gln Asp Glu
164     1           5           10           15
166 aac cca gtg gtg cac ttc gga ggt gga ggc tca cta gtg ccc cga ggc      95
167 Asn Pro Val Val His Phe Gly Gly Gly Gly Ser Leu Val Pro Arg Gly
168           20           25           30
170 tct gga ggt gga ggc tcc      113
171 Ser Gly Gly Gly Gly Ser
172           35
175 <210> SEQ ID NO: 4
176 <211> LENGTH: 37
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Antigen/linker insert
183 <400> SEQUENCE: 4
185 Met Gly Arg Asp Ser Pro Gln Lys Ser Gln Arg Thr Gln Asp Glu Asn
186 1           5           10           15
189 Pro Val Val His Phe Gly Gly Gly Gly Ser Leu Val Pro Arg Gly Ser
190           20           25           30
193 Gly Gly Gly Gly Ser
194           35
197 <210> SEQ ID NO: 5
198 <211> LENGTH: 83
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Alternative antigen encoding sequences for the expression
cassett
204     e
206 <220> FEATURE:
207 <221> NAME/KEY: CDS
208 <222> LOCATION: (3)..(83)
209 <223> OTHER INFORMATION:
212 <400> SEQUENCE: 5
213 cc atg ggc aga gac tcc tcc ggc aag gat tcg cat cat gcg gcg cgg      47
214   Met Gly Arg Asp Ser Ser Gly Lys Asp Ser His His Ala Ala Arg
215     1           5           10           15
217 acg acc cac tac ggt gga ggt gga ggc tca cta gtg      83
218 Thr Thr His Tyr Gly Gly Gly Gly Gly Ser Leu Val
219           20           25
222 <210> SEQ ID NO: 6
223 <211> LENGTH: 27

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224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Alternative antigen encoding sequences for the expression
cassett
229     e
231 <400> SEQUENCE: 6
233 Met Gly Arg Asp Ser Ser Gly Lys Asp Ser His His Ala Ala Arg Thr
234 1             5             10             15
237 Thr His Tyr Gly Gly Gly Gly Ser Leu Val
238             20             25
241 <210> SEQ ID NO: 7
242 <211> LENGTH: 89
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Alternative antigen encoding sequences for the expression
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250 <220> FEATURE:
251 <221> NAME/KEY: CDS
252 <222> LOCATION: (3)..(89)
253 <223> OTHER INFORMATION:
256 <400> SEQUENCE: 7
257 cc atg ggc aga gac tcc aaa ctg gaa ctg cag tcc gct ctg gaa gaa             47
258 Met Gly Arg Asp Ser Lys Leu Glu Leu Gln Ser Ala Leu Glu Glu
259 1             5             10             15
261 gct gaa gct tcc ctg gaa cac gga ggt gga ggc tca cta gtg             89
262 Ala Glu Ala Ser Leu Glu His Gly Gly Gly Gly Ser Leu Val
263             20             25
266 <210> SEQ ID NO: 8
267 <211> LENGTH: 29
268 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Alternative antigen encoding sequences for the expression
cassett
273     e
275 <400> SEQUENCE: 8
277 Met Gly Arg Asp Ser Lys Leu Glu Leu Gln Ser Ala Leu Glu Glu Ala
278 1             5             10             15
281 Glu Ala Ser Leu Glu His Gly Gly Gly Gly Ser Leu Val
282             20             25
285 <210> SEQ ID NO: 9
286 <211> LENGTH: 28
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: PCR primer
293 <400> SEQUENCE: 9
294 aattcctcga gatggctctg cagacccc             28
297 <210> SEQ ID NO: 10

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298 <211> LENGTH: 30
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: PCR primer
305 <400> SEQUENCE: 10
306 tcttgacctc caagccgccg cagggaggtg 30
309 <210> SEQ ID NO: 11
310 <211> LENGTH: 31
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: PCR primer
317 <400> SEQUENCE: 11
318 cggcggccttg gaggtcaaga cgacattgag g 31
321 <210> SEQ ID NO: 12
322 <211> LENGTH: 37
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: PCR primer
329 <400> SEQUENCE: 12
330 gcctcggtag cttagttgac agcttggggtt gaatttg 37
333 <210> SEQ ID NO: 13
334 <211> LENGTH: 26
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: PCR primer
341 <400> SEQUENCE: 13
342 cagggacccat gggcagagac tcccca 26
345 <210> SEQ ID NO: 14
346 <211> LENGTH: 30
347 <212> TYPE: DNA
348 <213> ORGANISM: Artificial Sequence
350 <220> FEATURE:
351 <223> OTHER INFORMATION: PCR primer
353 <400> SEQUENCE: 14
354 gcctcctcga gttagttgac agcttggggtt 30
357 <210> SEQ ID NO: 15
358 <211> LENGTH: 128
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial Sequence
362 <220> FEATURE:
363 <223> OTHER INFORMATION: PCR primer
365 <400> SEQUENCE: 15
366 gaaatcccgc ggggagcctc cacctccaga gcctcggggc actagtgagc ctccacctcc 60
368 gaagtgcacc actgggttct catcctgagt cctctggctc ttctgtggg agtctctgcc 120
370 ctcagtc 128

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VERIFICATION SUMMARY

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Input Set : A:\ES.txt

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